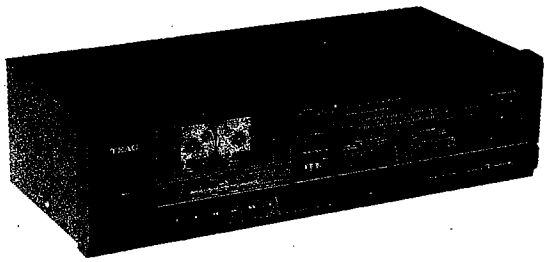
V215C/V210C/V205/V200
987

TEAC®



SERVICE MANUAL

V-215C/V-210C/V-205/V-200

Stereo Cassette Deck

CAUTION

⚠Parts maked with this sign are safety critical components. They must always be replaced with identical components— refer to the appropriate parts list and ensure exact replacement.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Effective: MARCH 1987 DC 7006

9103002600

1 SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo
2 Heads Erase, record/playback
Type of Tape Cassette tape, C-60 and C-90 (Philips type)
Tape Speed 4.8 cm/s (1-7/8 ips)
Input (level and impedance)
LINE IN: Specified input level: −9 dB (275 mV)/50 kohms
Min. input level: −19 dB (87 mV)
Output (level and load impedance)
OUTPUT: Spec. output level: −3.5 dB (518 mV)/50 kohms
Equalization
METAL. 3180 μs + 70 μs
CrO_2: 3180 μs + 70 μs
NORMAL: 3180 μs + 120 μs
Head Configuration
1/2-track, 1-channel erase head
1/4-track, 2-channel record/playback head
Motor 1 DC servo motor
Bias Frequency 100 kHz
Operation Position Horizontal
Power Requirements
120/220/240 V AC, 50/60 Hz (General Export Models)
120 V AC, 60 Hz (U.S.A./Canada)
220 V AC, 50 Hz (Europe)
240 V AC, 50 Hz (U.K./Australia)
Power Consumption 8W
Weight 2.9 kg (6-3/8 lbs.)
Dimensions

SERVICE DATA

MECHANICAL

Tape Speed Deviation 3,000 Hz +90, −60 Hz
Tape Speed Drift 45 Hz
Wow and Flutter
Playback: 0.37% (RMS)
Pinch Roller Pressure 250 g to 470 g (8.8 oz to 16.5 oz)
Reel Torque
Take-up: 30 to 65 g-cm (0.42 to 0.91 oz-inch)
Supply: 1 to 6 g-cm (0.014 to 0.083 oz-inch)
F.F.: 55 to 160 g-cm (0.77 to 2.22 oz-inch
REW: 55 to 160 g-cm (0.77 to 2.22 oz-inch
Fast Wind Time
120 sec or less for MTT-5511 (C-60)
Auto End-stop Time 6 sec. or less

ELECTRICAL

Frequency Response
See Figs. 5-17 & 5-8.
Signal-to-noise Ratio
Playback: NORMAL: 46 dB min.
Record/Playback:
METAL, CrO_2: 46 dB min.
NORMAL: 45 dB min.
Erase Efficiency
65 dB min. at 1 kHz (measured with input 10 dB higher th the specified input level).
Channel Separation 30 dB min. at 1 kHz
Adjacent Track Crosstalk 40 dB min. at 125 Hz
Total Harmonic Distortion 2.0% or less with NORMAL, 2.5% or less with CrO_2, METAL

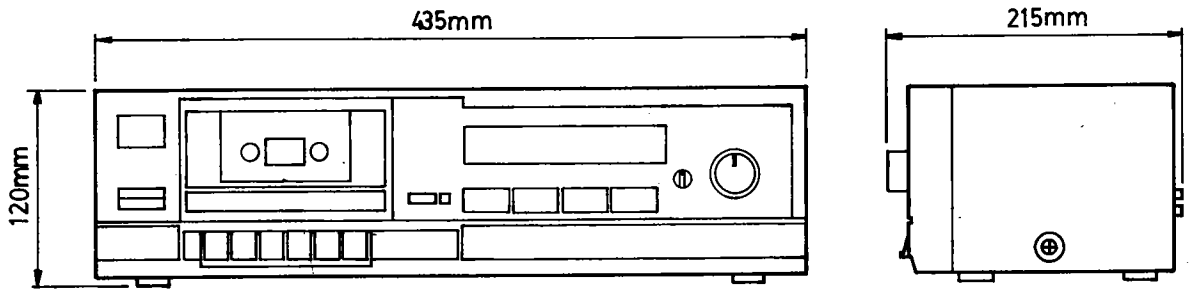
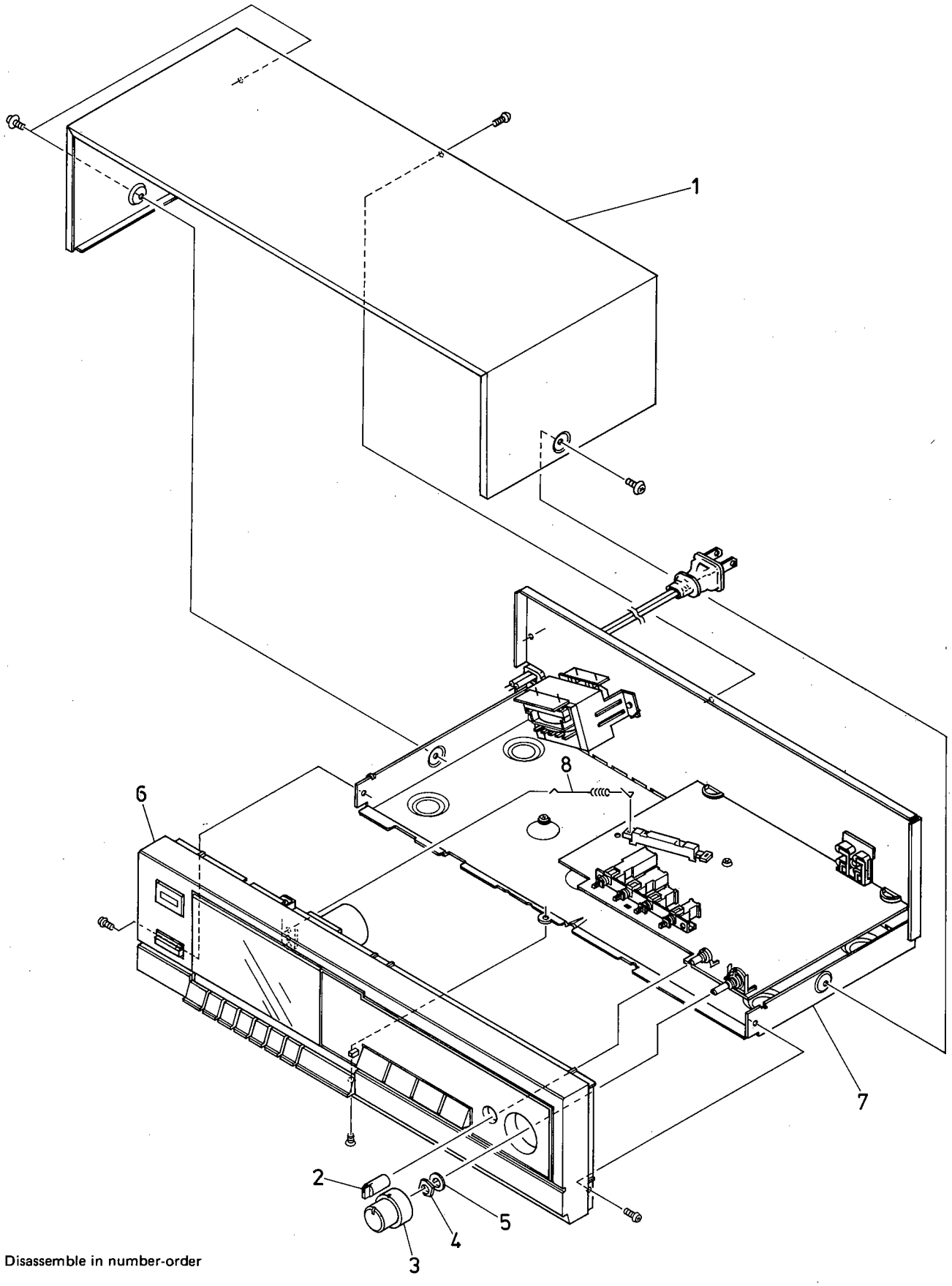


Fig. 1-1

NOTES:
Improvements may result in SPECIFICATIONS AND SERVICE DATA changes.
Value of "dB" in the data refers to 0 dB (0.775 V), except where Specified.

2 CASE AND FRONT PANEL REMOVAL



Disassemble in number-order

3 PARTS LOCATION

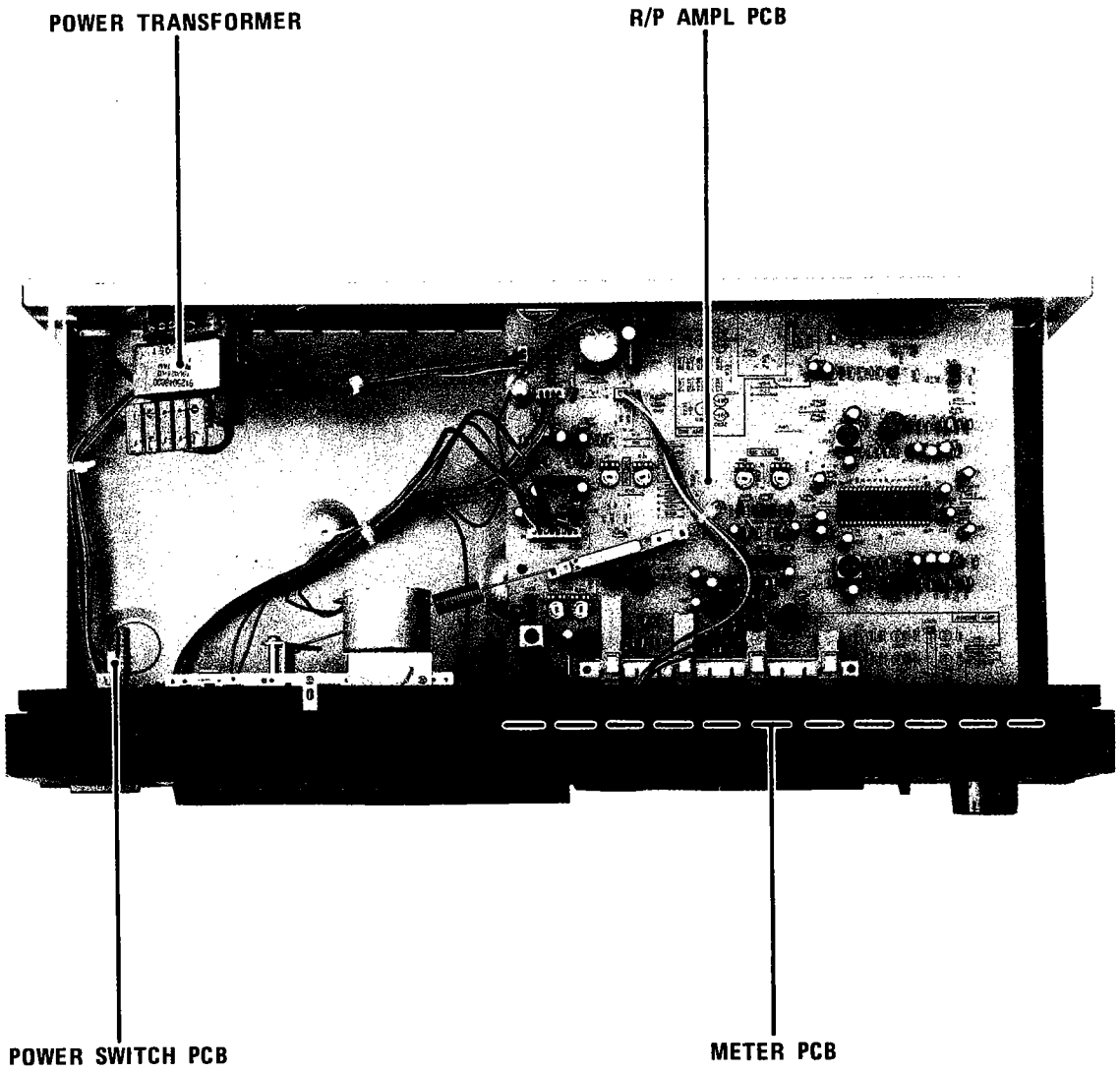


Fig. 3-1 Top view (V-210C)

V-215C/V-210C/V-205/V-200

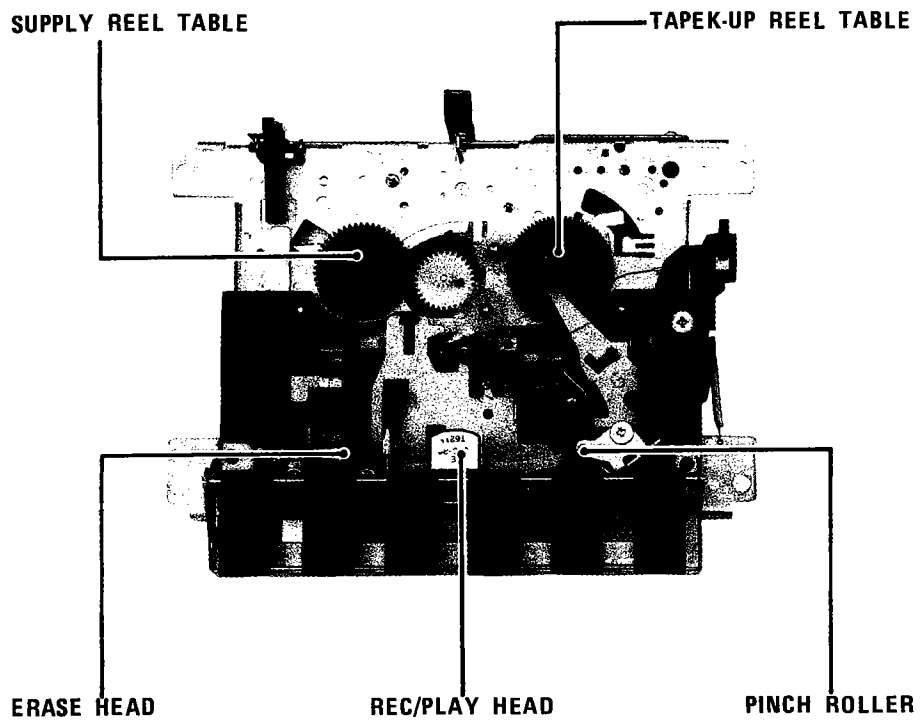


Fig. 3-2 Transport front view

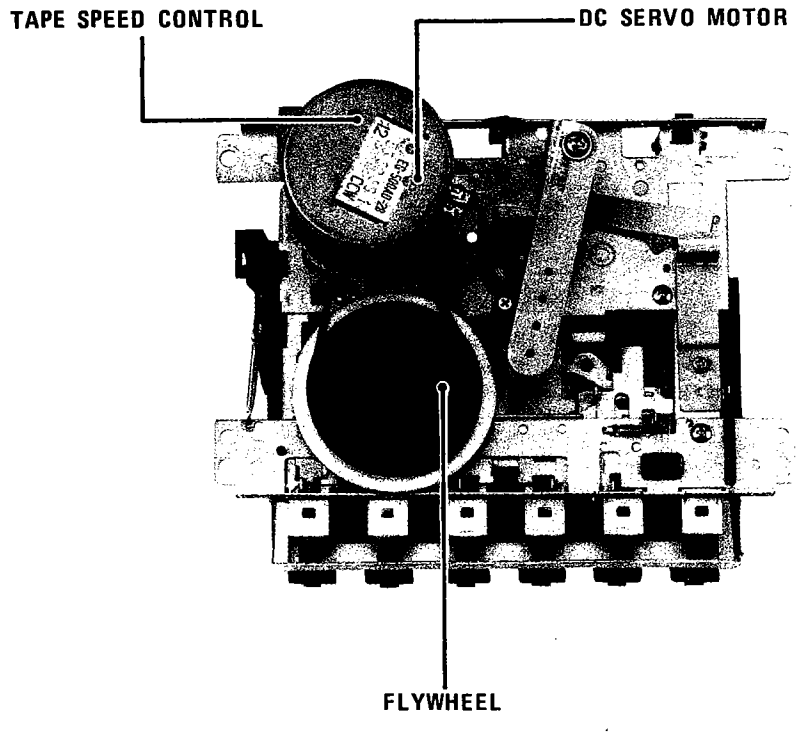


Fig. 3-3 Transport rear view

4 MECHANICAL ADJUSTMENT AND CHECKS

4-1 WOW AND FLUTTER (PLAYBACK METHOD)

Note: These measurements should be made at the beginning, middle, and the end of the tape.

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the readings on the wow-and-flutter meter are as follows.
   Specifications: 0.37% RMS

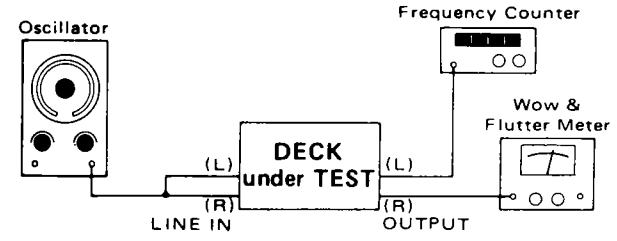


Fig. 4-1

4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Playing the mid portion of an MTT-111 test tape adjust the semi-fixed resistor on capstan motor so that tape speed becomes 3,000 Hz ±5 Hz. An insulated and non-metallic flat-head screwdriver should be used for this adjustment.
3. In play mode, check that the following values are obtained at the beginning and at the end of the tape.
   Deviation: 3,000 Hz ± 30 Hz
   Width of deviation: Within 45 Hz

4-3 REEL TORQUE

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values:
   Specifications:
   Take-up:
   30 to 65 g-cm (0.42 to 0.91 oz-inch)
   Supply:
   1 to 6 g-cm (0.014 to 0.08 oz-inch)
   F.F./REW:
   55 to 160 g-cm (0.77 to 2.22 oz-inch)

4-4 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.

oil: TEAC spindle oil (from TEAC TZ-255 oil kit),
Mobil D.T.E. oil Light, or equivalent

1. Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of flywheel, then insert the shaft into the capstan housing.

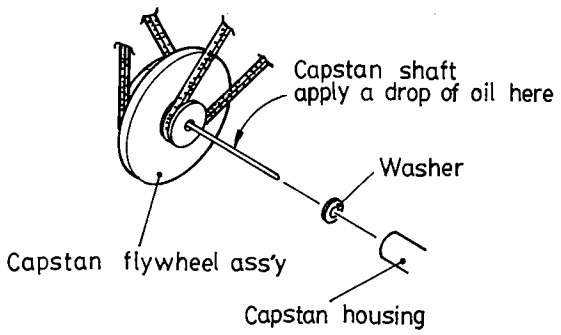


Fig. 4-2

4-5 VOLTAGE CONVERSION (General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the vlotage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corrsponding to the voltage requirements of your area appear.

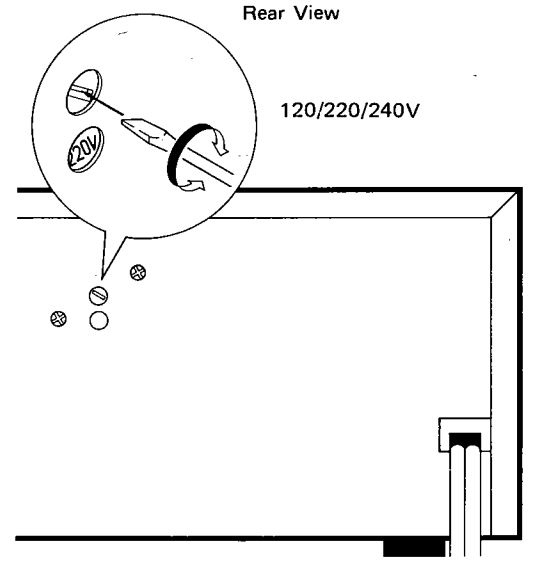


Fig. 4-3

V-215C/V-210C/V-205/V-200

5 ELECTRICAL ADJUSTMENT AND CHECKS

5-1 PRECAUTIONS

1. Before performing adjustmends and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. indicate L-ch/R-ch. (Example: R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohmes or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Input terminals and measuring points at each step are the same as previous step, otherwise specified.

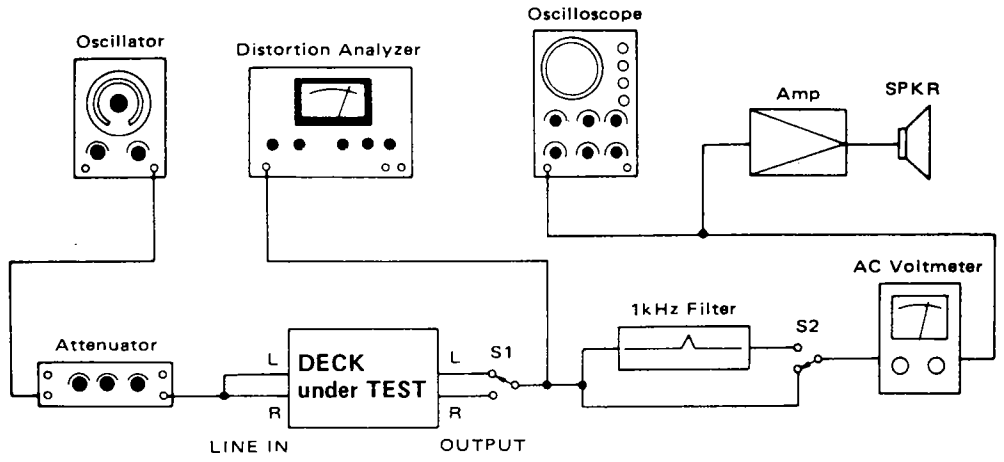


Fig. 5-1 Basic test setup

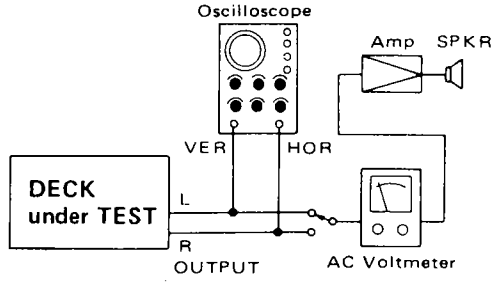


Fig. 5-2 Test setup for azimuth check

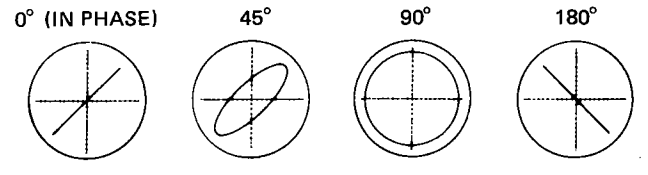


Fig. 5-3 Confirming phase relationship

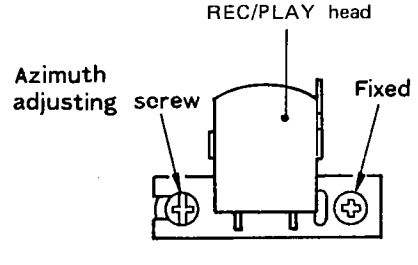


Fig. 5-4 Azimuth screw location

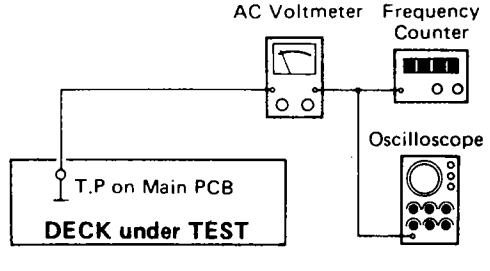
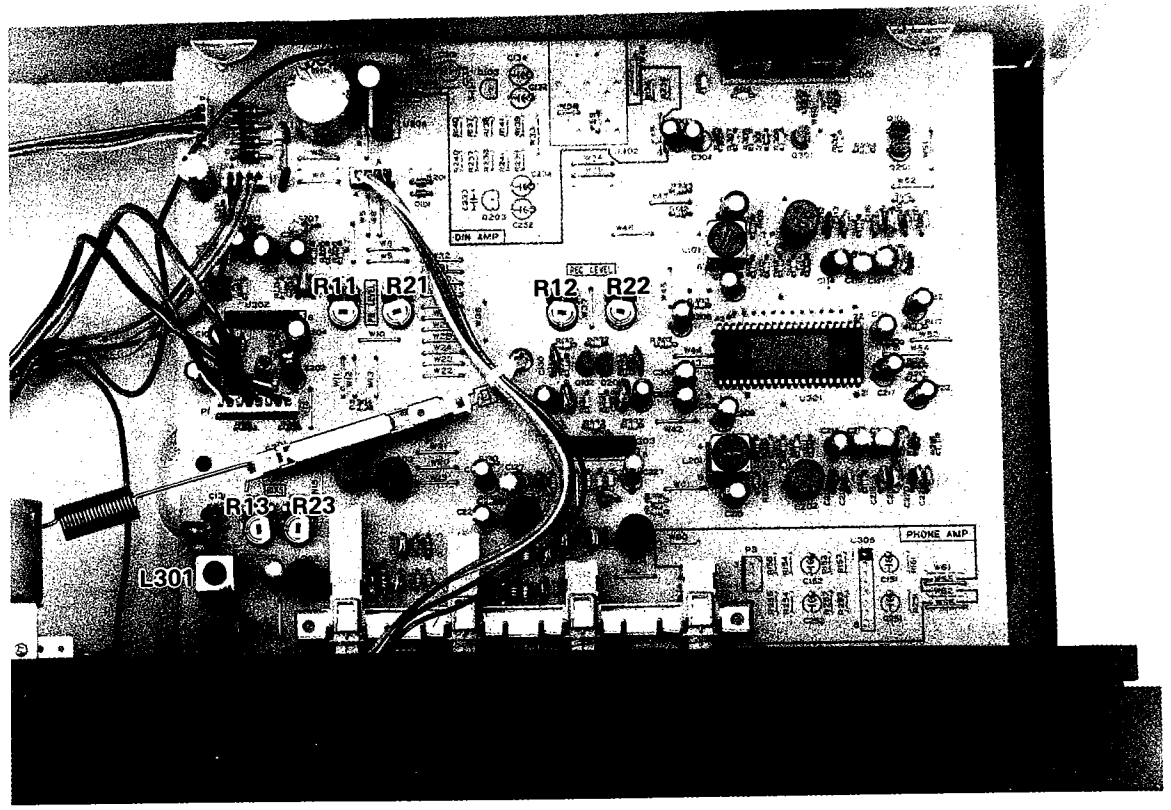


Fig. 5-5 Test setup for bias adjustment

5-2 ADJUSTMENT LOCATIONS



Function		Adjustments	Test Point (Measuring Point)
Specified output level		R11/R21	T.P L/R (DOLBY)
Bias OSC		L301	Bias T.P (Both side of R101)
Record Bias	NORMAL	R13/R23	OUTPUT Terminals
Record level	NORMAL	R12/R22	OUTPUT Terminals
REL/PLAY Frequency Response		Check	OUTPUT Terminals

Fig. 5-6

5-3 PLAYBACK PERFORMANCE

Deck settings:
NR SYSTEM sw: OUT

TEAC test tapes:
MTT-150C: For Dolby level calibration
MTT-256: For playback frequency response check for NORMAL
MTT-356: For METAL and CrO_2
MTT-5511: For S/N check for NORMAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
1. REC/PLAY head azimuth	Connection: Fig. 5-2	MTT-150C	Check	OUTPUT: Phase: within 45°	Refer to Fig. 5-3
		MTT-256 (10 kHz)	Azimuth screws of R-P head (Fig. 5-4)	Phase between L-ch /R-ch: 0° Max. output at L- & R-ch's	
2. Specified output level	Connection: Fig. 5-1	MTT-150C	R11/R21	V-215C/V-210C T.P. (DOLBY) 245mV (–10dB) V-205/V-200 T.P. (DOLBY) 580mV (–2.5dB)	See page 8.
			Check	OUTPUT: –3.5dB ± 1dB (461 to 581mV)	
3. Playback frequency response	NORMAL	MTT-256	Check	OUTPUT: Fig. 5-7	
	CrO_2	MTT-356	Check		
4. Playback S/N ratio	Tape sw: NORMAL Play mode	MTT-5511 (Playing a leader tape)	Check	46 dB min.	Ratio of spec. output of –3.5 dB to noise

5-4 MONITOR PERFORMANCE

Deck settings:
RECORD-PAUSE mode
NR SYSTEM sw: OUT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
5. Specified LINE input level	———	400 Hz/–9 dB (275mV)	RECORDING LEVEL cont. (L/R)*	OUTPUT: –3.5 dB ± 1 dB (461mV to 581mV)	Refer to Fig. 5-5
		* After adjusting, do not move (Specific position)			

Tape: MTT-256 (NORMAL)

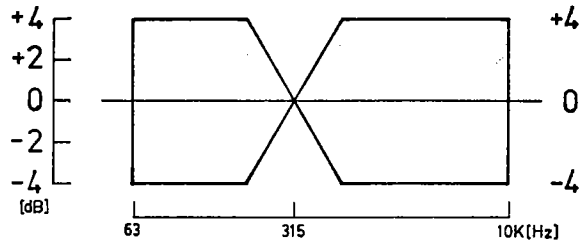


Fig. 5-7 Playback frequency response

Tape: MTT-5511 (NORMAL)
Tape: MTT-5561 (CrO_2)
Tape: MTT-5571 (METAL)

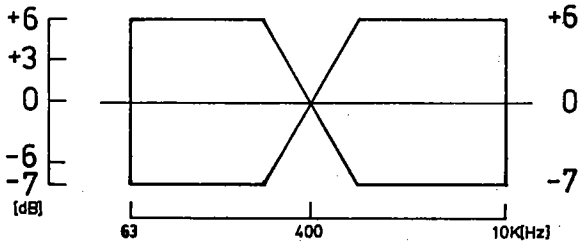


Fig. 5-8 Overall frequency response

5-5 RECORDING PERFORMANCE

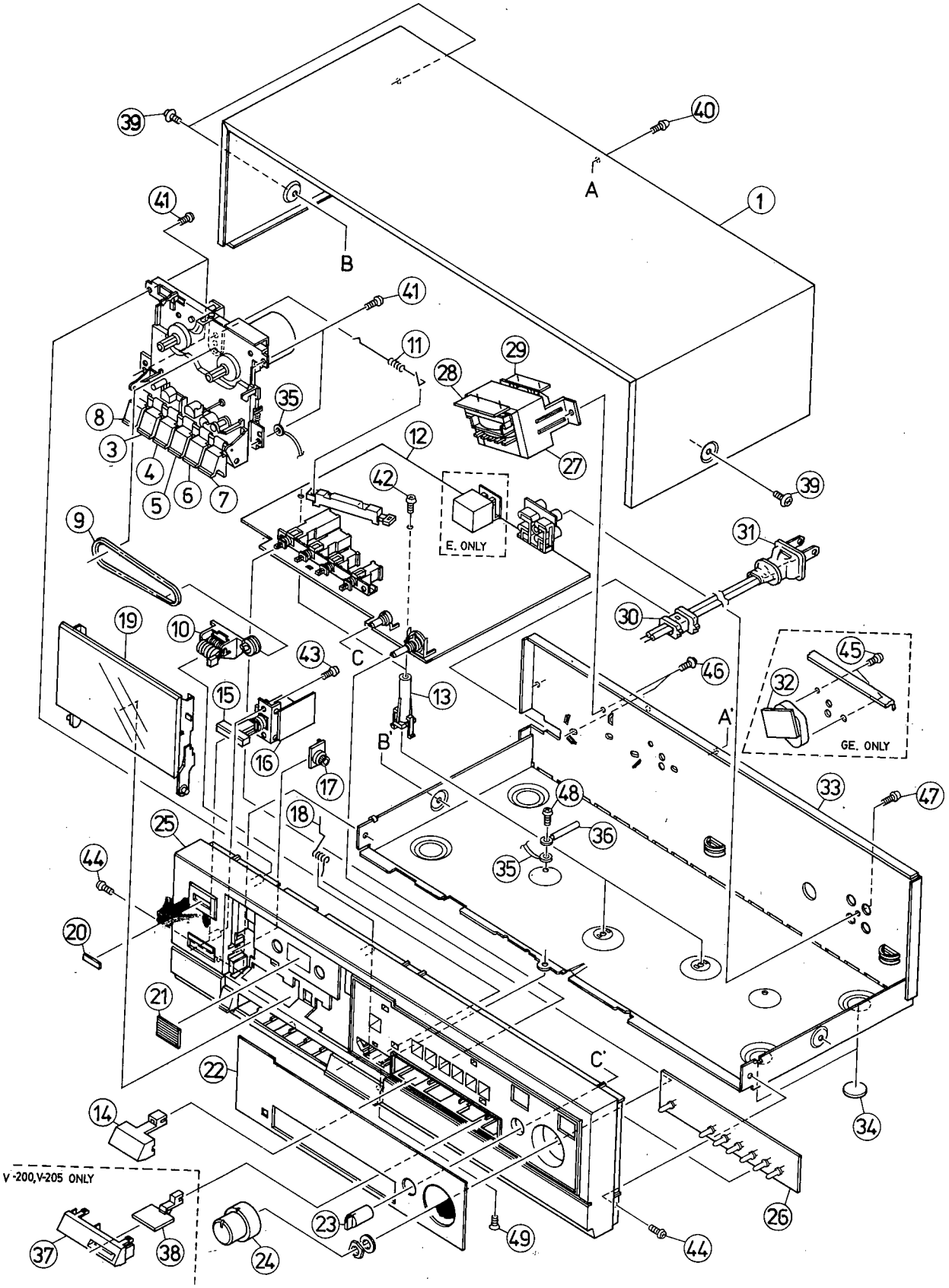
Deck settings:
NR SYSTEM sw: OUT
RECORD cont. (L/R): Spec. position (item 5)

TEAC recording test tapes
MTT-5571: For METAL
MTT-5561: For CrO_2
MTT-5511: For NORMAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
6. BIAS osc. frequency	Connection: Fig. 5-5 Tape: MTT-5511 RECORD/PAUSE mode	no signal	L301	Bias TP (Both side of R101) 100 kHz	Refer to Fig. 5-5
7. Record bias	Connection: Fig. 5-1 Tape: MTT-5511 RECORD/PLAY mode	LINE IN: 400Hz & 10kHz alternately/–42dB (6.15mV) Record and reproduce them.	R13/R23	OUTPUT: Nearly equal level at both frequencies	Repeat if the result is unsatisfactory
8. BIAS FINE control check	Tape: MTT-5511 BIAS FINE cont: fully "–" position, then fully "+" position	10kHz/–42dB (6.15mV)	Check	Measure output level (record playback) at "–" position then at "+" position Variation between "–" and "+" positions: 5dB or more	V-215C/V-210C only
9. Record level	Tape: MTT-5511	400Hz/–12dB (195mV) Record and reproduce them.	R12/R22	–6.5dB (367mV)	
	Tape: MTT-5561 Tape: MTT-5571 NR SYSTEM: IN & OUT		Check	–6.5dB ± 1.5dB (308mV ~ 436mV)	
10. Overall frequency response	Tape: MTT-5511 Tape: MTT-5561 Tape: MTT-5571	Required frequencies: –42dB (6.15mV)	Check	Standard: Fig. 5-8	
11. Overall S/N ratio	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	1kHz/–9dB (275mV) ↓ no signal	Check	OUTPUT: 46dB min. [METAL, CrO_2] 45dB min. [NORMAL]	Ratio of specified output of –3.5dB to noies

6 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1

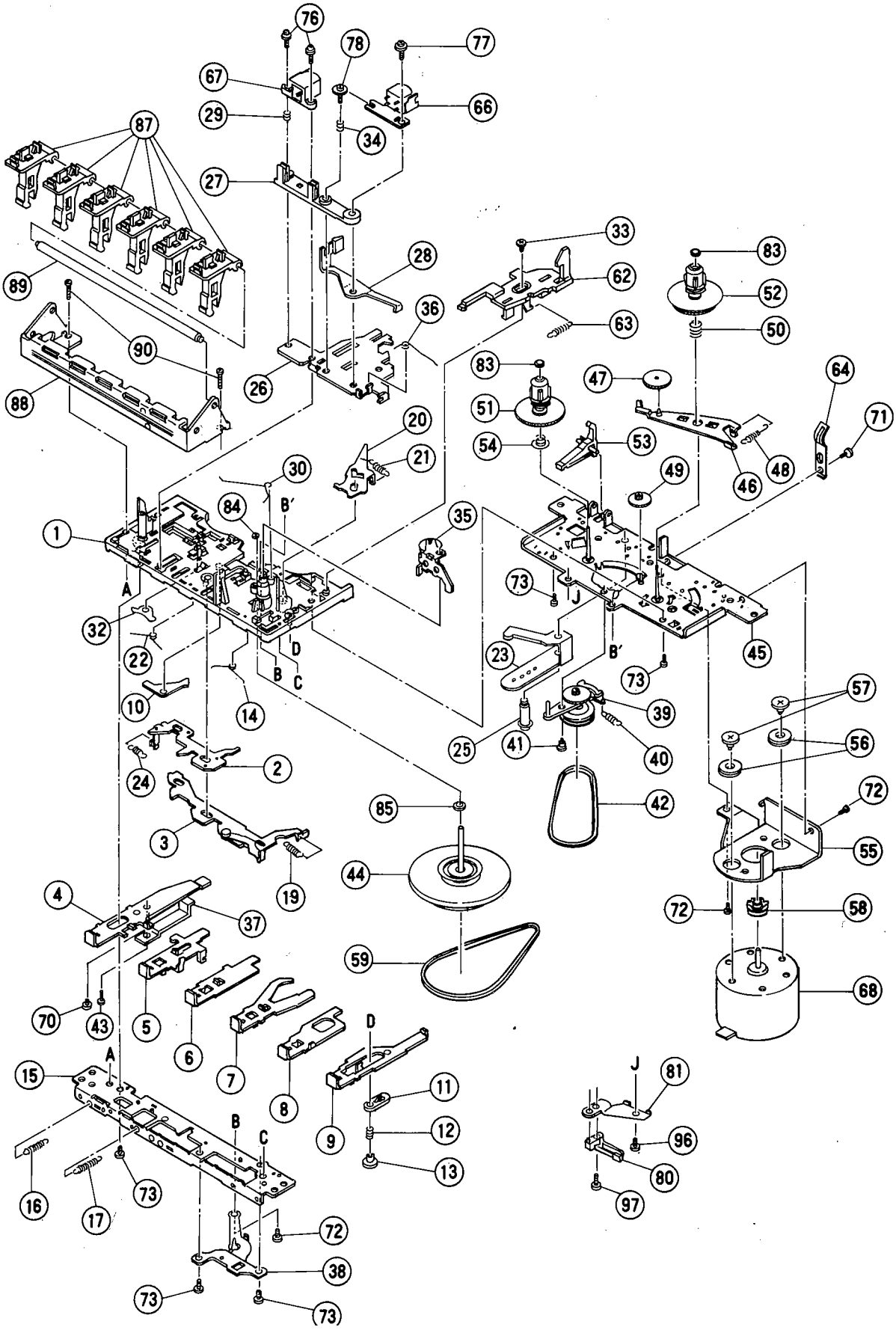


EXPLODED VIEW-1

Parts marked with *require longer delivery time.

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1 - 1	*9260053001	BONNET	
1 - 3	9260054000	BUTTON, PLAY	
1 - 4	9260053900	BUTTON, REW	
1 - 5	9260053800	BUTTON, FF	
1 - 6	9260054100	BUTTON, STOP	
1 - 7	9260054200	BUTTON, PAUSE	
1 - 8	9260054300	BUTTON, RECORD	
1 - 9	9260057200	BELT, COUNTER, ϕ58	
1 - 10	9260057700	COUNTER	
1 - 11	*9260057100	BAR, RECORD	
1 - 12	*9145042101	PCB ASSY, R/P (V-215C/V-210C) [EXCEPT E]	REF. PAGE 17 & 21
	*9145042111	PCB ASSY, R/P (V-215C/V-210C) [E]	REF. PAGE 17 & 21
	*9145041102	PCB ASSY, R/P (V-205/V-200) [EXCEPT E]	REF. PAGE 19 & 21
	*9145041112	PCB ASSY, R/P (V-205/V-200) [E]	REF. PAGE 19 & 21
1 - 13	*9260054511	SUPPORT, PCB	
1 - 14	9260056800	BUTTON (102), PUSH	
1 - 15	9260057300	BUTTON (103), POWER	
1 - 16	*9145041300	PCB ASSY, POWER SWITCH	
1 - 17	*9260057600	DAMPER (JA-230)	
1 - 18	*9260056000	SPRING	
1 - 19	9260057900	LOADING CASE A	
1 - 20	*5720175500	TEAC EMBLEM	
1 - 21	*5800822400	REFLECT TAPE	
1 - 22	*9260054701	COVER, METER (V-210C)	
	*9260061900	COVER, METER (V-215C)	
	*9260054601	COVER, METER (V-200)	
	*9260062000	COVER, METER (V-205)	
1 - 23	9260057400	KNOB (101), BIAS (V-210C/V-215C)	
1 - 24	9260056900	KNOB (102), REC	
1 - 25	*9260054500	PANEL, FRONT (V-210C)	
	*9260061600	PANEL, FRONT (V-215C/V-205)	
	*9260054400	PANEL, FRONT (V-200)	
1 - 26	*9145041200	PCB ASSY, METER	REF. PAGE 18 & 21
1 - 27	⚠9125048001	TRANSFORMER, POWER [US] [T]	
	⚠9125048501	TRANSFORMER, POWER [C]	
	⚠9125048201	TRANSFORMER, POWER [E] [A] [UK]	
	⚠9125048701	TRANSFORMER, POWER [GE]	
	⚠9125048800	TRANSFORMER, POWER [J]	
1 - 28	⚠*9155049200	PCB, TRANS. [US] [C]	REF. PAGE 16
	*9155041400	PCB A, TRANS. [GE] [T]	REF. PAGE 16
	*9155041600	PCB C, TRANS. [E] [A] [UK]	REF. PAGE 16 & 21
1 - 29	*9155041500	PCB B, TRANS.	
1 - 30	⚠*5317003400	BUSHING	
1 - 31	⚠*9109025800	CORD, AC [US] [C] [GE] [T]	
	⚠*9109025700	CORD, AC [E]	
	⚠*9109026000	CORD, AC [A]	
	⚠*9109025900	CORD, AC [UK]	
	⚠*9109026100	CORD, AC [J]	
1 - 32	*9145041800	PCB ASSY, VOLTAGE SELECTOR SWITCH [CE]	REF. PAGE 16 & 21
1 - 33		CHASSIS, MAIN [EXCEPT E]	
		CHASSIS, MAIN [E]	
1 - 34	*9260057000	FOOT	
1 - 35	*9107015400	GND WIRE	
1 - 36	*9788823045	CLAMPER, WIRE	
1 - 37	9260056600	KNOB, ESCUTCHEON (V-205/V-200)	
1 - 38	9260056700	BUTTON (101), DOLBY (V-205/V-200)	
1 - 39	*9783053006	SCREW, CAP-S M3x6 BLK	
1 - 40	*5783593008	SCREW, C TITE M3x8 NI-BLK	
1 - 41	*9783603010	SCREW, BTT-P M3x10	
1 - 42	*9783603008	SCREW, BTT-P M3x8	
1 - 43	*9783603008	SCREW, BTT-P M3x8	
1 - 44	*9783203006	SCREW, BTT-S M3x6	
1 - 45	*9783603008	SCREW, BTT-P M3x8	
1 - 46	*9783103008	SCREW, CAP-S M3x8	
1 - 47	*9783603008	SCREW, BTT-P M3x8	
1 - 48	*9783203006	SCREW, BTT-S M3x6	
1 - 49	*9783333008	SCREW, FTT-S M3x8	

EXPLODED VIEW-2



EXPLODED VIEW-2

REF. NO.	PARTS NO.	DESCRIPTION
2 - 1	*9278195100	MAIN BASE ASSY
2 - 2	*9278195200	PLATE, SWITCH
2 - 3	*9278195300	ACTUATOR ASSY, PUSH BUTTON
2 - 4	*9278195400	LEVER, REC BUTTON
2 - 5	*9278207100	LEVER, PLAY BUTTON
2 - 6	*9278195600	LEVER, RWD BUTTON
2 - 7	*9278195700	LEVER, FF BUTTON
2 - 8	*9278195800	LEVER, STOP BUTTON
2 - 9	*9278195900	LEVER ASSY, PAUSE BUTTON
2 - 10	*9278196000	LEVER, RWD
2 - 11	*9278207200	LEVER, PAUSE
2 - 12	*9278196200	SPRING, PAUSE LEVER
2 - 13	*9278196300	STOPPER, PAUSE
2 - 14	*9278196400	SPRING(C), BUTTON LEVER
2 - 15	*9278196500	SUB CHASSIS
2 - 16	*9278196600	SPRING(A), BUTTON LEVER
2 - 17	*9278196700	SPRING(S), PLAY BUTTON LEVER
2 - 19	*9278196900	SPRING, ACTUATOR
2 - 20	*9278197000	LEVER, AUTO
2 - 21	*9278197100	SPRING, AUTO LEVER
2 - 22	*9278208900	SPRING(E), BUTTON LEVER
2 - 23	*9260055600	LEVER B, RECORD
2 - 24	*9278207300	SPRING, SWITCH ACTUATOR
2 - 25	*9260057500	COLLAR SCREW
2 - 26	*9278197600	HEAD PANEL
2 - 27	*9278197700	HEAD BASE
2 - 28	*9278197800	PLATE ASSY, SENSING
2 - 29	*9278197900	SPRING, E.H.
2 - 30	*9278198000	SPRING(S), HEAD PANEL
2 - 32	*9278198200	STOPPER, P.R.
2 - 33	*9278198300	SCREW, P.M.E.
2 - 34	*9278198400	SPRING, AZIMUTH
2 - 35	9278198500	ARM ASSY, PINCH ROLLER
2 - 36	9278207400	SPRING, PINCH ROLLER
2 - 37	*9260055500	LEVER A, RECORD
2 - 38	*9278198800	METAL GUIDE
2 - 39	9278207500	ARM ASSY, RF PULLEY
2 - 40	*9278199000	SPRING, RF PULLEY ARM
2 - 41	*9278199100	COLLAR SCREW, RF ARM
2 - 42	9278199200	BELT, RF
2 - 43	*9783022003	SCREW, PTT-S M2x3
2 - 44	9278199400	FLY WHEEL ASSY
2 - 45	*9278207600	REEL BASE ASSY
2 - 46	*9278199600	PLATE ASSY, TAKE UP GEAR
2 - 47	9278207700	GEAR, TAKE UP ROLLER
2 - 48	*9278199800	SPRING, T.G. PLATE
2 - 49	9278207800	GEAR, FF
2 - 50	*9278207900	SPRING, BACK TENSION
2 - 51	9278208000	REEL ASSY, SUPPLY
2 - 52	9278200200	REEL ASSY, TAKE UP
2 - 53	*9278200300	LEVER, RECORD SAFETY
2 - 54	*9278208100	SPRING, BACK TENSION
2 - 55	*9278208200	BRACKET, MOTOR
2 - 56	*9278270600	RUBBER, MOTOR
2 - 57	*9278208300	COLLAR SCREW
2 - 58	9278208400	PULLEY, MOTOR
2 - 59	9278208500	BELT, MAIN
2 - 62	*9278201200	LEVER, EJECT SLIDE
2 - 63	*9278208600	SPRING, EJECT SLIDE LEVER
2 - 64	*9278201400	SPRING, PACK
2 - 66	9278201600	HEAD, R.P.
2 - 67	9278201700	HEAD, E
2 - 68	9278026600	MOTOR (EG-500AD-2B)
2 - 70	*9278208700	SCREW, TAMS M2x3
2 - 71	*9278202000	SCREW, C TAPPING M2x3
2 - 72	*9278202100	SCREW, C TAPPING M2x4
2 - 73	*9278202200	SCREW, P TAPPING BIND M2x5
2 - 76	*9278202500	SCREW, ⊕ ⊖ CAP M2x7.5
2 - 77	*9278202600	SCREW, ⊕ ⊖ CAP M2x7
2 - 78	*9278202700	SCREW, AZIMUTH
2 - 80	*9278208800	SWITCH, LEAF (MSW-1473)
2 - 81	*9278203000	BRACKET, SWITCH
2 - 83	*9278203100	P WASHER CUT 1.2x3.8x0.4
2 - 84	*9278203300	P WASHER CUT 1.55x3.8x0.5
2 - 85	*9278203400	P WASHER CUT 2.05x4x0.5
2 - 87	*9278203600	LEVER, OPERATION
2 - 88	*9278203700	B FRAME (S)
2 - 89	*9278203800	SHAFT, BUTTON LEVER
2 - 90	*9278203900	SCREW (FOR CAMERA) M2x7
2 - 96	*9278204600	SCREW, C TAPPING M2x5
2 - 97	*9278204500	SCREW, CAMERA M1.7x3

INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9101368500	OWNER'S MANUAL (ENGLISH)	V-210C/V-200
	*9101368700	OWNER'S MANUAL (MULTI)	V-210C/V-200
	*9101369700	OWNER'S MANUAL (ENGLISH)	V-215C/V-205
	*9101369800	OWNER'S MANUAL (FRENCH)	V-215C/V-205
	*9101369900	OWNER'S MANUAL (JAPANESE)	V-210C
	*9109025100	CORD, IN-OUT	

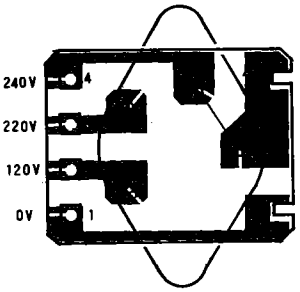
Parts marked with *require longer delivery time.

[US]: U.S.A. [E]: EUROPE [UK]: U.K. [C]: CANADA

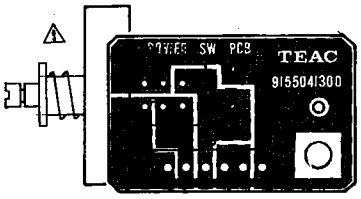
[A]: AUSTRALIA [GE]: GENERAL EXPORT [T]: TAIWAN [J]: JAPAN

7 PC BOARDS AND PARTS LIST

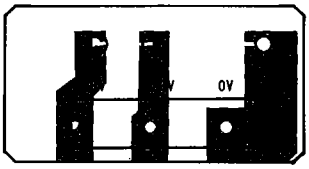
VOLTAGE SELECTOR PCB ASS'Y



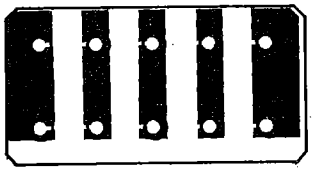
POWER SW PCB ASS'Y



TRANS PCB C

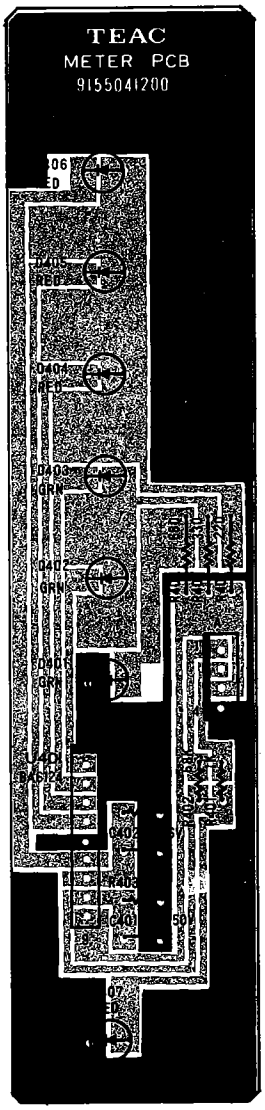


TRANS PCB A



TRANS PCB B

METER PCB ASS'Y

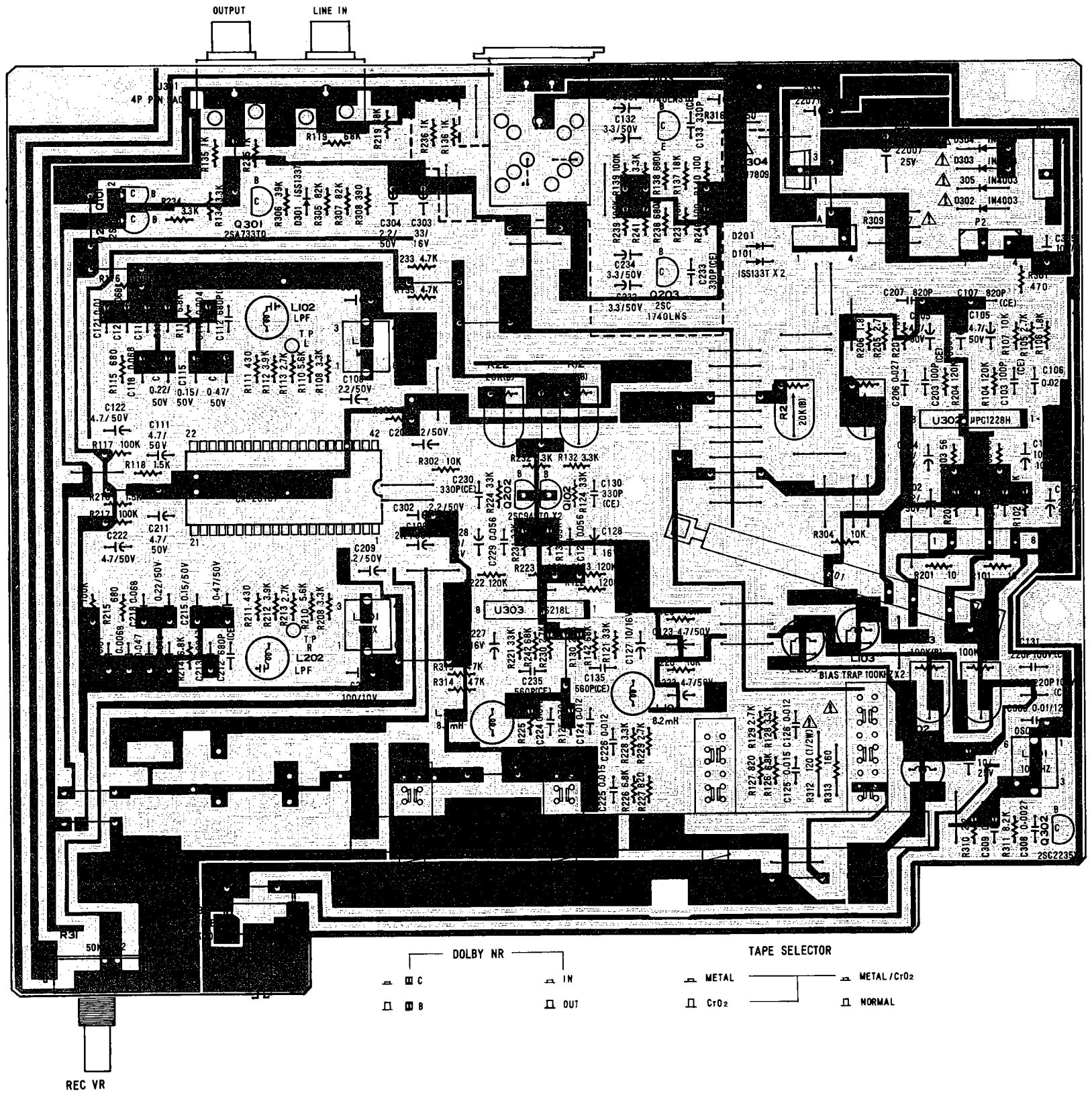


NOTES

1. PC boards are shown viewed from foil side.
2. The colors on the PC board illustrations have the following significance:
   ▬ : GND
   ▒ : other
3. Resistor values are in ohms (k=kilo-ohms M=megohms).
4. All capacitor values are in microfarads (p=picofarads).
5. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.

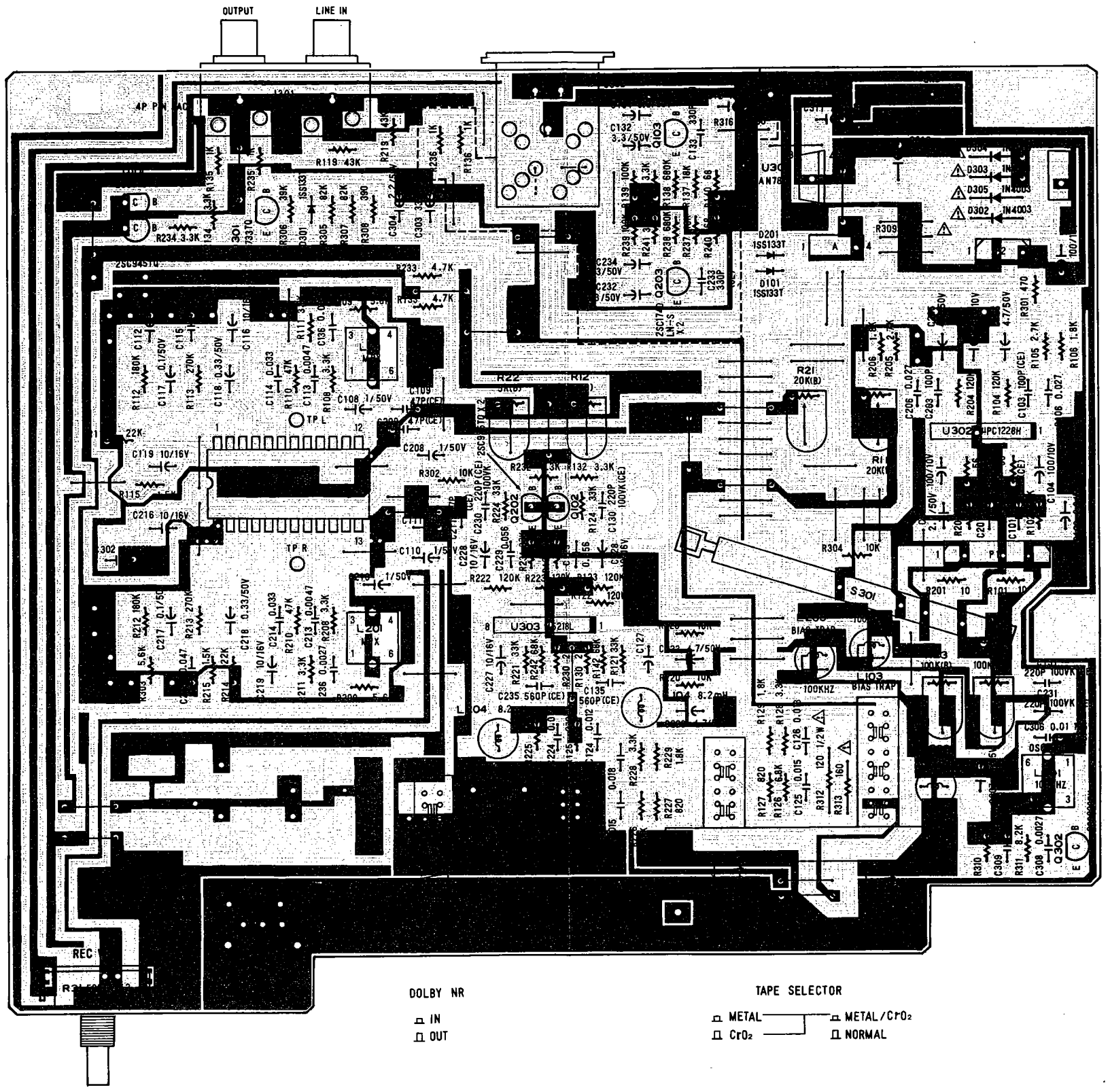
V-215C/V-210C/V-205/V-200

R/P AMPL PCB ASS'Y (V-215C/V-210C)



V-215C/V-210C/V-205/V-200

R/P AMPL PCB ASS'Y (V-205/V-200)



POWER SW PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145041300	POWER SW PCB ASSY
	*9155041300	POWER SW PCB
	⚠9135028000	POWER SW

VOLTAGE SELECTOR SW PCB ASSY [GE]

REF. NO.	PARTS NO.	DESCRIPTION
	*9145041800	VOLTAGE SELECTOR SW PCB ASSY
	*9155041800	VOLTAGE SELECTOR SW PCB
	⚠ 5332016300	VOLTAGE SELECTOR SW

POWER TRANSFORMER PCB C ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9155041600	POWER TRANSFORMER PCB C
	⚠*5327009200	TERMINAL LAPPING 2P [E]
	⚠*5327009300	TERMINAL LAPPING 3P [A] [U.K]

R/P PCB ASSY

REF. NO.		PARTS NO.	DESCRIPTION
		*9145042101	R/P PCB ASSY (V-215C/V-210C) [EXCEPT E]
		*9145042111	R/P PCB ASSY (V-215C/V-210C) [E]
		*9145041102	R/P PCB ASSY (V-205/V-200) [EXCEPT E]
		*9145041112	R/P PCB ASSY (V-205/V-200) [E]
		*9155042100	R/P PCB (V-215C/V-210C)
		*9155041100	R/P PCB (V-205/V-200)
U301		5220427000	IC, CX20187 (V-215C/V--210C)
		5220427100	IC, NE657 (V-205/V-200)
U302		9167010400	IC, μPC1228H
U303		5220416200	IC, M5218L
U304	⚠	9167011500	IC, AN7809 (V-215C/V-210C)
U304	⚠	9167012000	IC, AN7810 (V-205/V-200)
Q101, Q201		9163310020	TR. 2SC945TQ
Q102, Q202		9163310020	TR. 2SC945TQ
Q103, Q203		9163310120	TR. 2SC1740LN-S
Q301		9163011020	TR. 2SA733TQ
Q302		9163308900	TR. 2SC2235Y
D101, D201		9165021220	DIODE ISS133T-73
D301,		9165021220	DIODE ISS133T-73
D302-D305	⚠	9165021160	DIODE IN4003
R11, R21		9112017000	VR, SEMI-FIXED 20K(B)
R12, R22		9112017000	VR, SEMI-FIXED 20K(B) (V-215C/V-210C)
		9112000000	VR, SEMI-FIXED 5K(B) (V-205/V-200)
R13, R23		9112002000	VR, SEMI-FIXED100K(B)
R31		9172015500	VR, REC, 50K(A)x2
R32		9172015600	VR, BIAS FINE, 10K(B) (V-215C/V-210C)
L101, L201		9173002500	FILTER, LOWPASS MPX (V-215C/V-210C)
		9173002400	FILTER, LOWPASS MPX (V-205/V-200)
L102, L202		9173002700	FILTER, LOWPASS 19.8KHZ (V-215C/V-210C)
L103, L203		9122017600	COIL, BIAS TRAP 100KHZ
L104, L204		9122015300	COIL, 8.2mH
L301		9173002200	OSC COIL 100KHZ
L302		9122013300	COIL 1.2mH
J301		9143184000	PIN JACK 4P
J302		9140096000	DIN SOCKET [E]
S301		9134009100	SW, SLIDE 6-2
		9134009000	SW, SLIDE 7-2 [E]
		9135028100	SW, PUSH 4 GANG (V-215C/V-210C)
		9135028200	SW, PUSH 2 GANG (V-205/V-200)
		9135028300	SW, PUSH 2-2 (V-205/V-200)
		9143172000	PLUG, CONNECTOR, 4P
		9143176000	PLUG, CONNECTOR, 8P
R309	⚠	9114040060	R., NONFLAMMABLE R-25 FF 47 OHM
R312	⚠	9111351000	R., CARBON R-50 FF 120 OHM
R313	⚠	9111047050	R., CARBON R-25 JFT 160 OHM

NOTE

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

Parts marked with *require longer delivery time.

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[A]: AUSTRALIA [GE]: GENERAL EXPORT [T]: TAIWAN [J]: JAPAN

METER PCB ASSY

REF. NO.	PARTS NO.	DESCRIPTION
	*9145041200	METER PCB ASSY
	*9155041200	METER PCB
U401	9167010800	IC, BA6124
D401-D403	9174011420	LED, GRN, LTL-5134
D404-D407	9174011520	LED, RED, LTL-5124

Note
As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.

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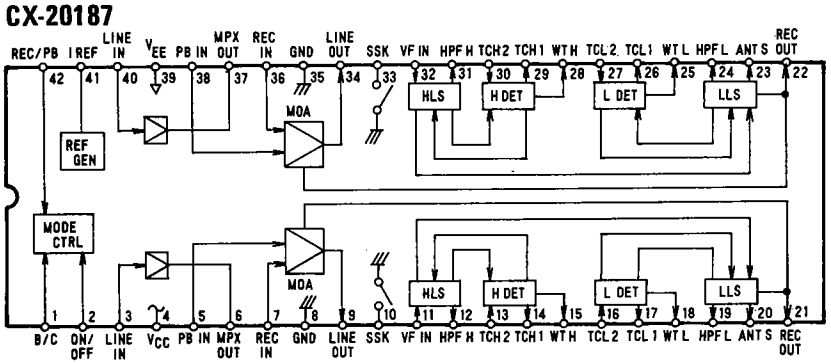
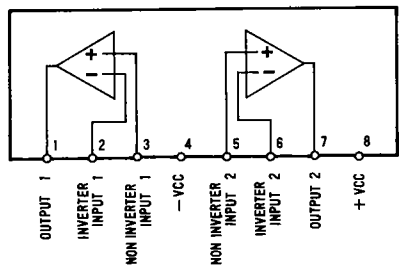
[A]: AUSTRALIA [GE]: GENERAL EXPORT [T]: TAIWAN [J]: JAPAN

IC BLOCK DIAGRAM

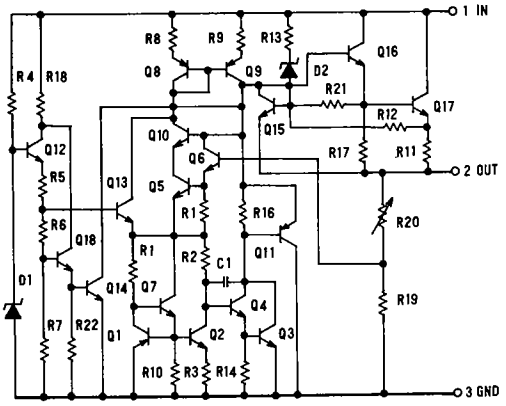
CX-20187



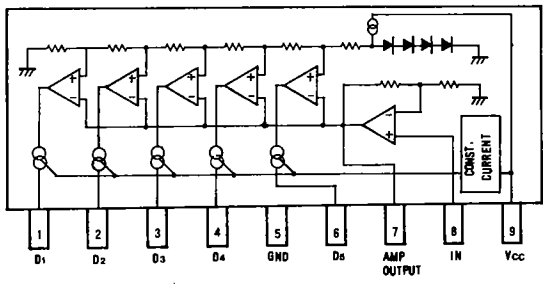
M5218L



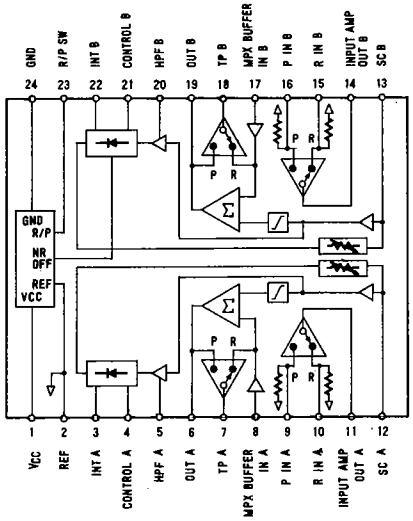
AN7809



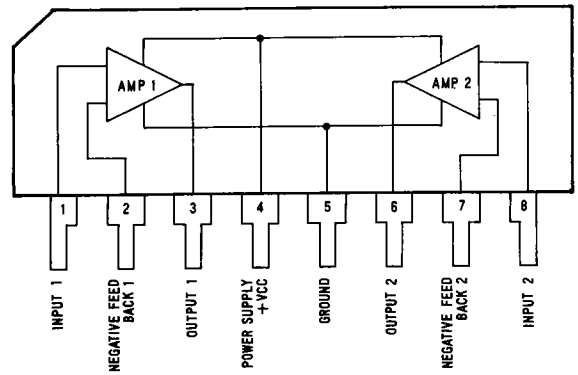
BA6124



NE657



μPC1228H



V-215C/V-210C/V-205/V-200

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